Final Report for NASA grant NAGW4926
"Internet Access to ISEE-1 and 2 Magnetometer Data"
5/23/97

With the support of this grant we placed the entire ISEE-1 and -2 magnetometer data on-line, using an 8 Gbyte disk drive purchased for this purpose. The data are stored at 4-s and 60-s resolution. These data can be accessed via "anonymous ftp" from the Institute of Geophysics and Planetary Physics Space Science Center computers, thus:

```
$> ftp terra.igpp.ucla.edu
Name: anonymous
Password: <your e-mail address>
ftp> cd pub/data/isee
ftp> ls
```

will list the contents of this directory
($> is host system prompt, ftp> is the ftp server prompt).

```
ftp> cd isee1.4s
ftp> binary
ftp> mget isee1.4s_0001-0050.*
```

will get the date file pair: isee1.4s_0001-0050.ffd, isee1.4s_0001-0050.ffh

In addition, we have developed an interactive world-wide-web page (URL http://www-ssc.igpp.ucla.edu/forms/isee) which allows individuals to plot, on request, any interval for which magnetometer data are available. This page also allows users to convert the data to "ASCII" format, which can be downloaded to the users home computer. Because ascii files tend to be large, this interface is expected to be used for short data intervals, whereas the ftp site is designed for users who desire many days of data at a time.

Attached to this report are print outs from the world-wide-web page, including a plot of data requested, as well as some information from the ftp server (which can also be accessed via the world-wide-web).

The world-wide-web pages are continually maintained in response to user feedback.

ISEE Magnetometer Data Server

This page provides access to the magnetometer data for the ISEE-1 and -2 spacecraft. Data are available for the entire mission (**October 22, 1977** through **September 25, 1987**), with 60-s and 4-s resolution. The data can be either displayed as a plot or listed as an ASCII file.

The ISEE-1 and and -2 magnetometers are described in detail in the paper
"The ISEE 1 and 2 Fluxgate Magnetometers"
by C. T. Russell (IEEE Trans. Geoscience Electronics, GE-16, 239-242, 1978)

If you want large quantities of data, an ftp server is available.

....

Plot/Listing request:

Please enter time in the fields below as in the example formats shown.

Start time: `77 dec 15 01:00:00`　　(The format is YR MON DY HH:MN:SC, e.g. 77 dec 15 01:00:00)

Stop time: `77 dec 15 02:00:00`　　(The format is YR MON DY HH:MN:SC, e.g. 77 dec 15 02:00:00)

Note: It is recommended that you request intervals of less than 1 day for 60-s data or 2 hours for 4-s data. However, you may request up to a maximum of 4 days for 60-s data or 12 hours for 4-s data. Please be aware requests over the recommended intervals will take longer due to the load on our server, especially during the peak hours between 9 am and 5 pm PST.

Spacecraft:　　● ISEE-1　　ISEE-2

Resolution:　　● 60-s

Figure 1. The ISEE magnetometer data server
world-wide-web page.

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Netsite: http://www-ssc.igpp.ucla.edu/forms/isee/

What's New? | What's Cool? | Destinations | Net Search | People | Software

Please enter time in the fields below as in the example formats shown.

Start time: 77 dec 15 01:00:00   (The format is YR MON DY HH:MN:SC, e.g. 77 dec 15 01:00:00)

Stop time: 77 dec 15 02:00:00   (The format is YR MON DY HH:MN:SC, e.g. 77 dec 15 02:00:00)

*Note: It is **recommended** that you request intervals of less than 1 day for 60-s data or 2 hours for 4-s data. However, you may request up to a **maximum** of 4 days for 60-s data or 12 hours for 4-s data. Please be aware requests over the recommended intervals will take longer due to the load on our server, especially during the peak hours between 9 am and 5 pm PST.*

Spacecraft: ●ISEE-1   ISEE-2

Resolution: ●60-s

                    Coordinate System:

                    ●Spacecraft   GSM

                    Ancillary data: Position (GSM only)

                    Note: The ancillary data quantity is only available if the selected coordinate system is also shown in parenthesis

            4-s

                    Data in spacecraft coordinates only

Plot or ASCII: ●Plot   ASCII

Submit   Clear

Figure 1 cont.

Note: The ancillary data quantity is only available if the selected coordinate system is also shown in parenthesis

4-s

Data in spacecraft coordinates only

Plot or ASCII: ● Plot   ASCII

Submit   Clear

We would appreciate an acknowledgement of any use of these data.

Christopher T. Russell is the Principal Investigator for the ISEE-1 and -2 magnetometers.

Robert J. Strangeway provided on-line access to the magnetometer data through the IGPP/UCLA Space Science Center with the aid of a grant from the NASA/Space Physics Data System. Any comments or questions concerning the data should be addressed to him, e-mail strange@igpp.ucla.edu.

Sophie Wong implemented the web interface. Questions or problems concerning the interface should be addressed to her, e-mail swong@igpp.ucla.edu.

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Last Modified: May 21, 1997

Figure 1 ccnt.

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Netsite: http://www-ssc.igpp.ucla.edu/cgi-bin/isee_master

What's New? | What's Cool? | Destinations | Net Search | People | Software

Selected spacecraft is: ISEE 1
Selected plot type is: 60 second
Selected coordinate system is: GSM
Selected start time is: 77 dec 15 00:00:00
Selected stop time is: 77 dec 16 00:00:00

File: isee1.60s/isee1.60s_0001 – 0060.ffh

BX GSM NT
BY GSM NT
BZ GSM NT
BT NT
X GSM RE
Y GSM RE
Z GSM RE

77 DEC 15   UT (TIC = 1HR)

Figure 2. Data plot produced as a result of
of a plot request.

```
          ISEE-1 and -2 Magnetometer - ftp data directory

This ftp directory is meant for users who wish to download large amounts
of data. Each of the data files contains about 120 days worth of
magnetometer data. As such, downloading the files can take some time.

This directory contains:

README_FIRST.txt -- this introductory file
flatfile.txt     -- a detailed description of the UCLA/IGPP flat file system
isee1.4s/        -- directory containing ISEE-1 4 second data
isee1.60s/       -- directory containing ISEE-1 60 second data
isee2.4s/        -- directory containing ISEE-2 4 second data
isee2.60s/       -- directory containing ISEE-2 60 second data

Each sub-directory contains the text files:

README_COVERAGE.txt    -- Time range spanned by each of the data files
README_DESCRIPTION.txt -- description of the columns within a data file

and data file (or flat file) pairs such as:

isee1.4s_0001-0050.ffd -- data file
isee1.4s_0001-0050.ffh -- header file

This flat file pair contains ISEE-1 4-s data from orbits 1 - 50.

File naming convention:     isee#.Ds_FORB-LORB.ff$
 spacecraft [isee1 or isee2] _/  /   /    /   /
 data interval [4s or 60s] ____/  /   /   /
 first orbit in file _____/   /   /
 last orbit in file _____/   /
 ffh [ascii header] or ffd [binary data]___/

If you can't read the full file names, try increasing your browser window
width and reloading the page.

The header files are stored as ascii files, with line length of 72
characters, but without line-feed or carriage return delimiters.
The data files contain data stored as Sun/Unix binary floating point.
```
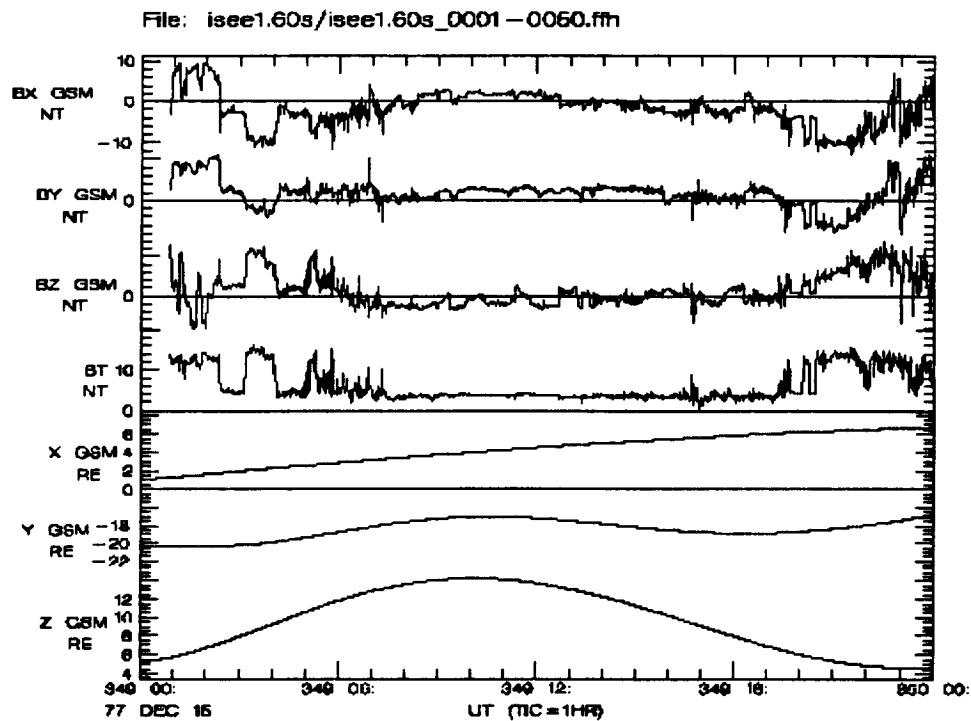
Figure 3. Beginning of the README_FIRST.txt
          file, introducing the ftp server.